

**Name of the Work : Improvements to Road, Drain and Footpath in
Main Road and abutting Cross Roads of Maruthinagara 1st Stage in
Ward No.8, Kodigehalli**

TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Improvements to Road, Drain and Footpath in Maruthinagara 1st Stage and Abutting Cross Roads in Ward No.8, Kodigehalli				
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore				
Contractor	M/s Karthik Enterprises				
Total Weight in g	3000				
SIEVE ANALYSIS					
Type of Material	40 mm down size			Proposed Use	PCC
Sample Location	At Site			Date of Sampling	9/8/2018
				Date of Testing	9/8/2018
IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	102	102	3.40	96.60	95-100
20.00mm	1200	1302	43.40	56.60	30-70
10.00mm	850	2152	71.73	28.27	10-35
4.75mm	750	2902	96.73	3.27	0-5
Tan	98	3000	100.00	0.00	
Remarks : ✓ Satisfactory / Not Satisfactory					

Consultant's Representative

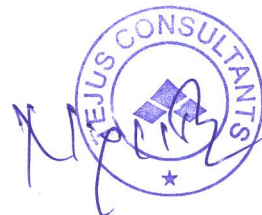


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 Assistant Engineer
 Water Supply Division
 Bangalore Urban Corporation
 Bangalore

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TEST REPORT ON CEMENT				
Project	Improvements to Road, Drain and Footpath in Maruthinagara 1st Stage and Abouting Cross Roads in Ward No.8, Kodigehalli			
Client	Bruhat Bangalore Mahanagar Palike			
Consultant	TEJUS CONSULTANTS			
Contractor	M/s Karthik Enterprises			
Sample ID	Cement			
Date of Sample Tested	09/08/18			
Sample Supplied By	Agency			
Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	38 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	385 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	

[Signature]
Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.



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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Improvements to Road, Drain and Footpath in Maruthinagara 1st Stage and Abouting Cross Roads in Ward No.8, Kodigehalli
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s Karthik Enterprises

SPECIFIC GRAVITY AND WATER ABSORPTION FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Sand/M sand		Proposed Use		Concrete
Location/Source	At Plant/site		Date of Sampling		9/8/2018
Period of Soaking	24 hours		Date of Testing		9/8/2018
Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	Average
A	Weight of sturated surface dry sample gm.	681	682	696	
B	Weight of oven - dry sample gm.	673	674	688	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1698	1698	1708	
E	Bulk specific gravity $\frac{B}{(C + A - D)}$	2.609	2.602	2.616	2.609
G	Absorption (%) $\frac{(A - B) * 100}{B}$	1.189	1.187	1.163	1.179

M. S. S.

*Assitant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.*



TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Improvements to Road, Drain and Footpath in Maruthinagara 1st Stage and Abouting Cross Roads in Ward No.8, Kodigehalli				
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore				
Contractor	M/s Karthik Enterprises				
SIEVE ANALYSIS					
Total Weight:	3000 gms				
Type of Material	Fine aggregate (River Sand/M sand)	Proposed Use	Concrete		
Sample Location	At Plant/site	Date of Sampling	9/8/2018		
		Date of Testing	9/8/2018		
IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	188	188	6.27	93.73	90 - 100
2.36 mm	275	463	15.43	84.57	75 - 100
1.18 mm	500	963	32.10	67.90	55 - 90
0.600 mm	490	1453	48.43	51.57	35 - 59
0.300 mm	680	2133	71.10	28.90	8-30
0.150 mm	600	2733	91.10	8.90	0 - 10
Pan	267	3000			-
Remarks : ☒ Satisfactory / Not Satisfactory					

Consultant's Representative

[Signature]
Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.,
Bangalore.



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TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Improvements to Road, Drain and Footpath in Maruthinagara 1st Stage and Abutting Cross Roads in Ward No.8, Kodigehalli				
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore				
Contractor	M/s Karthik Enterprises				
Total Weight in g	3000				
SIEVE ANALYSIS					
Type of Material	40 mm down size			Proposed Use	PCC
Sample Location	At Site			Date of Sampling	10/8/2018
				Date of Testing	10/8/2018
IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	102	102	3.40	96.60	95-100
20.00mm	1200	1302	43.40	56.60	30-70
10.00mm	850	2152	71.73	28.27	10-35
4.75mm	750	2902	96.73	3.27	0-5
Pan	98	3000	100.00	0.00	
Remarks : ☒ Satisfactory / Not Satisfactory					

Consultant's Representative

[Signature]
Assistant Executive Engineer,
Kodigehalli Sub Division,
Telahanka Zone, B.B.M.P.,
Bangalore.



TEST REPORT

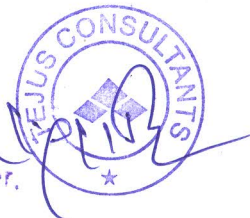
Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Improvements to Road, Drain and Footpath in Maruthinagara 1st Stage and Abouting Cross Roads in Ward No.8, Kodigehalli
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s Karthik Enterprises

SPECIFIC GRAVITY AND WATER ABSORPTION FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Sand/M sand		Proposed Use		Concrete
Location/Source	At Plant/site		Date of Sampling		10/8/2018
Period of Soaking	24 hours		Date of Testing		10/8/2018
Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	Average
A	Weight of sturated surface dry sample gm.	683	684	698	↓
B	Weight of oven - dry sample gm.	675	676	690	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1698	1698	1708	
E	Bulk specific gravity B (C + A - D)	2.596	2.590	2.604	2.597
G	Absorption (%) (A - B) *100 B	1.185	1.183	1.159	1.176

Murari
K.S.

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.



TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Improvements to Road, Drain and Footpath in Maruthinagara 1st Stage and Abouting Cross Roads in Ward No.8, Kodigehalli				
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore				
Contractor	M/s Karthik Enterprises				
SIEVE ANALYSIS					
Total Weight:	3000 gms				
Type of Material	Fine aggregate (River Sand/M sand)	Proposed Use	Concrete		
Sample Location	At Plant/site	Date of Sampling	10/8/2018		
		Date of Testing	10/8/2018		
IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	190	190	6.33	93.67	90 - 100
2.36 mm	280	470	15.67	84.33	75 - 100
1.18 mm	510	980	32.67	67.33	55 - 90
0.600 mm	500	1480	49.33	50.67	35 - 59
0.300 mm	690	2170	72.33	27.67	8-30
0.150 mm	610	2780	92.67	7.33	0 - 10
Pan	220	3000			-
Remarks : Satisfactory / Not Satisfactory					

Consultant's Representative

[Signature]
Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEST REPORT ON CEMENT				
Project	Improvements to Road, Drain and Footpath in Maruthinagara 1st Stage and Abouting Cross Roads in Ward No.8, Kodigehalli			
Client	Bruhat Bangalore Mahanagar Palike			
Consultant	TEJUS CONSULTANTS			
Contractor	M/s Karthik Enterprises			
Sample ID	Cement			
Date of Sample Tested	10/08/18			
Sample Supplied By	Agency			
Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	45 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	385 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	



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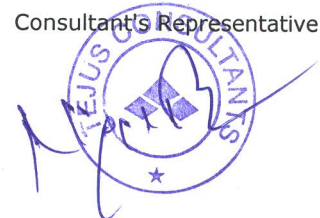
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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

PRECAST SLAB (CORE) TEST REPORT											
Client	:	Bruhat Bangalore Mahanagara Palike									
Contractor	:	M/s Karthik Enterprises									
Name of Work	:	Improvements to Road, Drain and Footpath in Maruthinagara 1st Stage and Abutting Cross Roads in Ward No.8, Kodigehalli									
No. of Sample Tested	:	3									
Date of Testing	:	27/08/18									
Technical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.									
Grade of Concrete	:	M ₂₀ - 100mm thick									
Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m ³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm ²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm ²)	Equivalent Cube Compressive Strength (N/mm ²)
1	50.00	90.00	0.458	2591.75	1.80	0.960	38.21	19.48	21.04	20.20	25.25
2	50.00	90.00	0.451	2552.14	1.80	0.960	38.56	19.65	21.22	20.37	25.47
3	50.00	90.00	0.436	2467.26	1.80	0.960	38.12	19.65	21.22	20.37	25.47

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.

Consultant's Representative



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H.S.

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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.



PRECAST SLAB (CORE) TEST REPORT

	:	Bruhat Bangalore Mahanagara Palike
Factor	:	M/s Karthik Enterprises
of Work	:	Improvements to Road, Drain and Footpath in Maruthinagara 1st Stage and Abouting Cross Roads in Ward No.8, Kodigehalli
Sample Tested	:	3
of Testing	:	28/08/18
ical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
of Concrete	:	M ₂₀ - 250mm Thick

Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m ³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm ²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm ²)	Equivalent Cube Compressive Strength (N/mm ²)
100.00	180.00	3.512	2484.23	1.80	0.960	158.58	20.19	21.81	20.93	26.17
100.00	180.00	3.562	2519.60	1.80	0.960	160.00	20.37	22.00	21.12	26.40
100.00	180.00	3.524	2492.72	1.80	0.960	161.00	20.50	22.14	21.25	26.57

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Consultant's Representative

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H.S.

(Signature)

(Signature)


Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

KERB STONE (CORE) TEST REPORT

Work	:	Improvements to Road, Drain and Footpath in Main Road and abutting Cross Roads of Maruthinagara 1st Stage in Ward No.8, Kodigehalli
Client	:	Bruhat Bengaluru Mahanagara Palike
Contractor	:	M/s Karthik Enterprises
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Number of Sample Tested	:	3
Date of Testing	:	28/08/18
Technical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M ₁₅

No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m ³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm ²)	Correction Factor for the Dia. (Strength)	Corrected Cylinder Compressive Strength (N/mm ²)	Equivalent Cube Compressive Strength
1	50.00	85.00	0.356	2133.05	1.70	0.960	28.56	14.55	15.71	15.08	18.85
2	50.00	85.00	0.359	2151.03	1.70	0.960	28.44	14.48	15.64	15.02	18.77
3	50.00	85.00	0.374	2240.90	1.70	0.960	28.00	14.26	15.40	14.79	18.48

Note:

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Consultant's Representative



M. S. S.
K-18

Deep
Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

KERB STONE (CORE) TEST REPORT

Work	:	Improvements to Road, Drain and Footpath in Main Road and abutting Cross Roads of Maruthinagara 1st Stage in Ward No.8, Kodigehalli									
Authority	:	Bruhat Bengaluru Mahanagara Palike									
Contractor	:	M/s Karthik Enterprises									
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore									
Sample Tested	:	3									
Date of Testing	:	29/08/18									
Technical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.									
Grade of Concrete	:	M ₁₅									
No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m ³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm ²)	Correction Factor for the Dia. (Strength)	Corrected Cylinder Compressive Strength (N/mm ²)	Equivalent Cube Compressive Strength (N/mm ²)
1	50.00	85.00	0.374	2240.90	1.70	0.960	28.40	14.56	15.72	15.10	18.87
2	50.00	85.00	0.372	2228.92	1.70	0.960	28.60	14.65	15.82	15.19	18.99
3	50.00	85.00	0.378	2264.87	1.70	0.960	28.41	14.48	15.64	15.01	18.77

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Consultant's Representative



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W/S

Aug
 Assistant Executive Engineer,
 Kodigehalli Sub Division,
 Yelahanka Zone, B.B.M.P.,
 Bangalore.